

Why is the seafloor spreading?

Lesson Review

Write *true* if the statement is true. If the statement is false, change the underlined term to make the statement true.

- _____ 1. The two kinds of crust are oceanic crust and land.
- _____ 2. Series of underwater mountain chains are called mid-ocean ridges.
- _____ 3. Iceland is part of the Mid-Pacific Rise.
- _____ 4. Oceanic crust near a mid-ocean ridge is older than crust farther away.
- _____ 5. The deep crack running down the center of an ocean ridge is called a trench.
- _____ 6. New continental crust is formed at the mid-ocean ridges.
- _____ 7. Seafloor spreading is a process that forms new oceanic crust.

Skill Challenge

Complete the following.

1. Label the lettered parts of Figure A. Use these labels: *oceanic crust*, *Iceland*, and *Mid-Atlantic Ridge*.

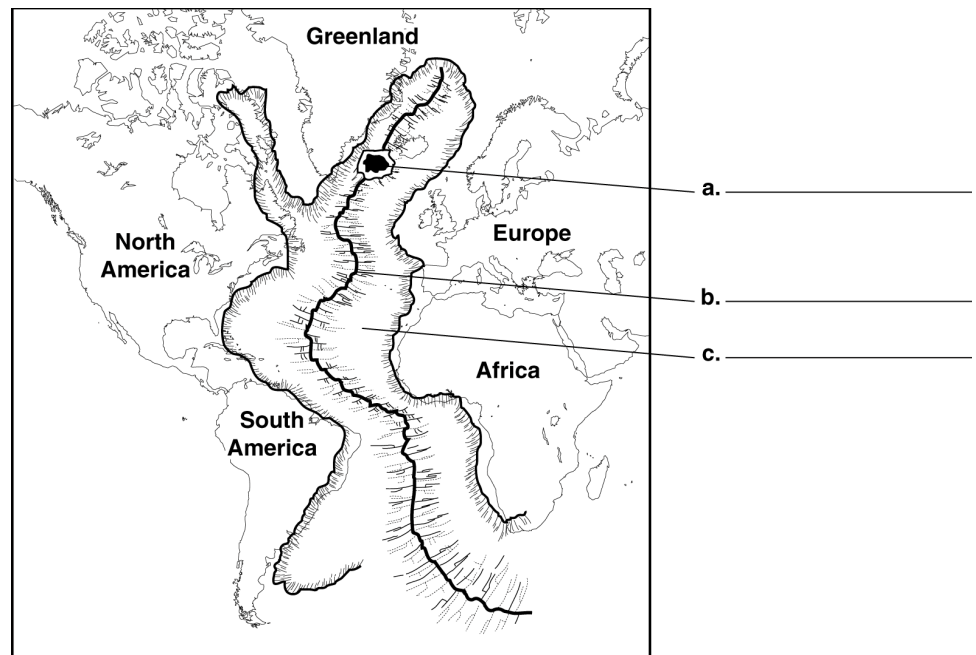


Figure A

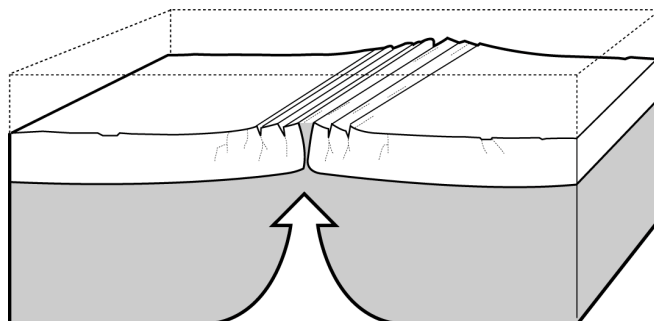


Figure B

2. Label Figure B. Use these terms: *rising magma*, *ocean crust*, *mid-ocean ridge*, and *rift valley*.
3. Draw arrows on Figure B to show seafloor spreading.

What are some effects of plate tectonics?

Lesson Review

PART A Answer the questions in complete sentences.

1. What is the place called where two plates meet? _____

2. What is a trench and how does it form? _____

3. What is a mid-ocean ridge? _____

4. Name three features on Earth's surface that can be formed by plate tectonics activity. _____

PART B Match the event or feature of Earth to what caused it.

- | | |
|--|-------------------------------------|
| _____ 1. two tectonic plates sliding past each other | a. eruption of Mount St. Helens |
| _____ 2. two continental plates colliding | b. San Francisco earthquake of 1906 |
| _____ 3. melting rock forming at a subduction zone | c. the Hawaiian Islands |
| _____ 4. hot spots forming under a tectonic plate | d. the Himalayas |

Skill Challenge

Study the diagram. Then, answer the questions that follow in complete sentences.

1. At what point is the hot spot located? _____

2. Which volcano is oldest—A, B, C, D, or E? _____

3. Which volcano is active? _____

4. Which volcano is youngest _____

5. Which volcanoes are inactive? _____

